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Volume 12 Number 5

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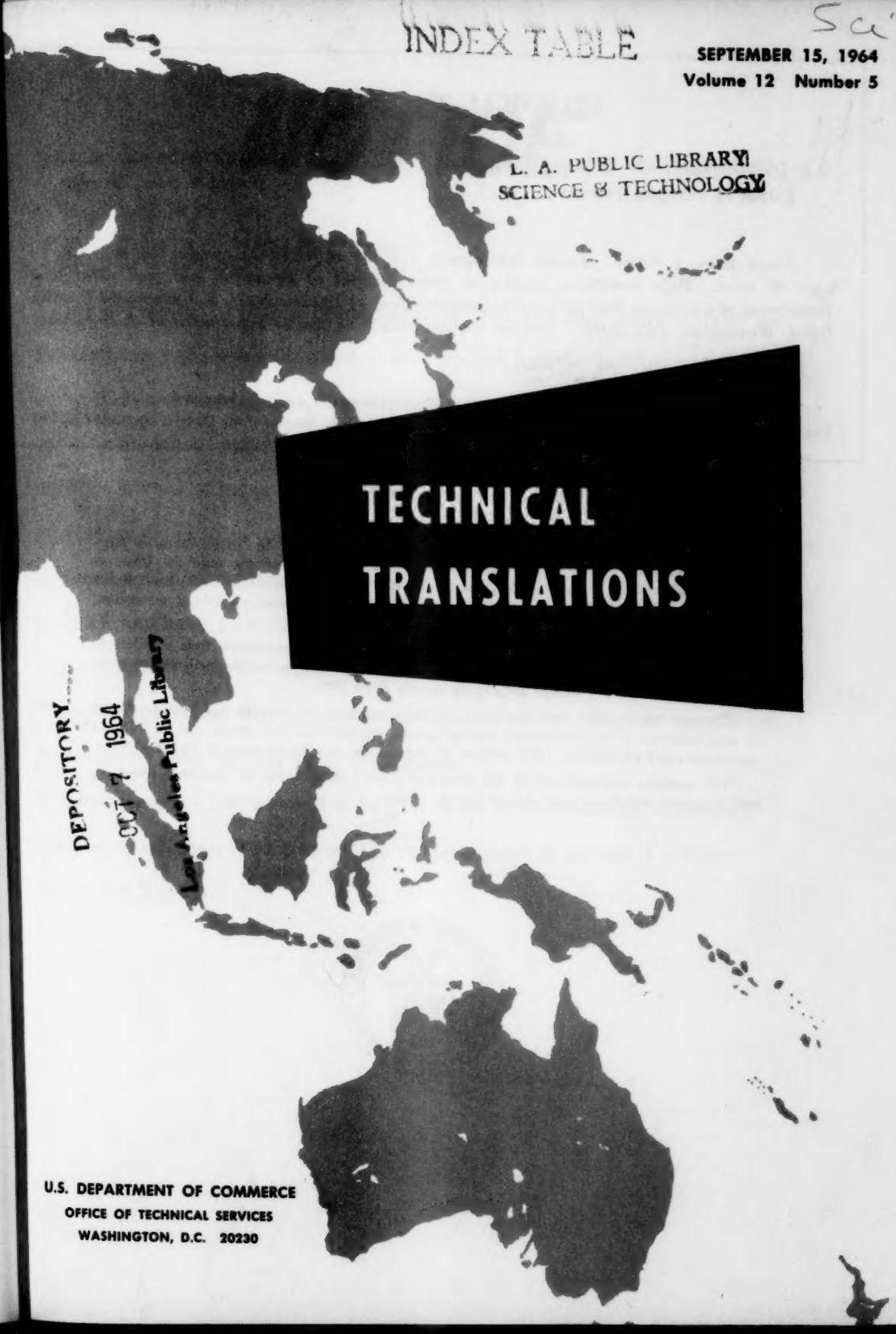

TECHNICAL TRANSLATIONS

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TECHNICAL TRANSLATIONS

U.S. DEPARTMENT OF COMMERCE
Luther H. Hodges, Secretary

OFFICE OF TECHNICAL SERVICES
Donald A. Schon, Director

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Use of funds for printing this publication approved by the Director of the Bureau of the Budget, November 22, 1961

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The changes noted will result in more timely announcements, increased coverage, and improved economy in the treatment of material included within the journal.

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The translations reported in this issue are arranged under the categories indicated in the Contents. The sub-groups of the categories are flexible and used only when there are several translations in a particular sub-group. When the subject of a sub-group is not included in the Contents, reference should be made to the general category into which it falls.

References to sources of original text are given as they appear on the translation, with sufficient editing to assure uniformity in citations.

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P. O. Box 46354
Hollywood,
California 90046

AGI
AGI Translations Office
American Geological Institute
2101 Constitution Ave., N. W.
Washington, D.C. 20000

AGS
American Geographical Society
Broadway at 156th Street
New York, New York 10032

AGU
American Geophysical Union
1515 Massachusetts Ave., N.W.
Washington, D.C. 20005

AIAA
American Institute of Aeronautics and Astronautics
500 Fifth Avenue
New York, New York 10036

AIBS
American Institute of Biological Sciences
2000 P Street, N.W.
Washington, D.C. 20006

AIP
American Institute of Physics
335 East 45th Street
New York, New York 10017

AIS
Argus Information Service
624 N. Eutaw Street
Baltimore, Maryland 21201

AM
Acta Metallurgica
122 East 55th Street
New York, New York 10022

AMS
American Mathematical Society
190 Hope Street
Providence, Rhode Island 02906

ANSP
Academy of Natural Sciences of Philadelphia
19th St. and the Parkway
Philadelphia, Pennsylvania 19103

API
Academic Press, Inc.
111 Fifth Ave.,
New York, New York 10003

ARS
American Rocket Society, Inc.
20th and Northampton Streets
Easton, Pennsylvania 18042

ATS
Associated Technical Services, Inc.
P. O. Box 271
East Orange, New Jersey 07017

BGIRA
British Glass Industry Research Association
Northumberland Road
Sheffield 10, England

BIHR
Circulation Manager
Translations of the Beltone Institute for Hearing Research
2900 West 36th Street
Chicago, Illinois 60632

BISI
British Iron & Steel Industry Translation Service
The Iron and Steel Institute
4, Grosvenor Gardens
London, S.W. 1, England

BWRA
British Welding Research Association
Abington Hall, Abington
Cambridge, England

CB
Consultants Bureau Enterprises Inc.
227 West 17th Street
New York, New York 10011

CCT
Consultants Custom Translations Inc.
227 West 17th Street
New York, New York 10011

CHP
Cleaver-Hume Press, Ltd.
31, Wright's Lane
London, W. 8, England

CID
Centro de Informacion y Documentacion
Patronato Juan de la Cierva,
Serrano 150, Apartado 743,
Madrid 6, Spain

CIDNT
Centralny Instytut Dokumentacji Naukowo-Technicznej
Warszawa 12
Aleja Niepodleglosci 188
Poland

CNP
Comitato Nazionale per la Produttivita
Service d'Information
Viale Regina Margherita N. 83D
Rome, Italy

CNRS
Centre National de la Recherche Scientifique
Centre de Documentation
15 Quai Anatole France
Paris 7, France

CSIRO
Commonwealth Scientific and Industrial Research Organization
Information Service
314 Albert Street
East Melbourne C. 2, Victoria
Australia

CTRA
The Librarian
The Coal Tar Research Association
Oxford Road
Gomersal, Leeds, England

CTS (Chem)
Chemical Translating Service
2243 Greer Road
Palo Alto, California 94300

CTT
Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

DI
Circulation Unit
Department of the Interior
Central Library
Room 1149
Washington, D.C. 20240

DTC
Danish Translations Centre,
c/o Library of the Danish Atomic Energy Commission,
Riso. Roskilde, Denmark

EIS
Engineering Information Services
Kirkham, Preston, Lancashire,
England

ES
Erica Stux
584 Moreley Avenue
Akron, Ohio 44320

ETC
European Translations Centre
Coelenstraat 101, Delft,
The Netherlands

FASEB
Federation of American Societies for Experimental Biology
9650 Wisconsin Avenue
Washington, D.C. 20014

FRI
Fulmer Research Institute, Ltd.
Stoke Poges,
Buckinghamshire,
England

FT
Faraday Translations
15 Park Row
New York, New York 10038

GB
Gordon and Breach
Publishers, Inc.
150 Fifth Avenue
New York, New York 10011

GPO
Superintendent of Documents
Government Printing Office
Washington, D.C. 20402

GPRC
Geophysical & Polar Research Center
6021 S. Highland Road
Madison, Wisconsin 53706

HB
Henry Brutcher
P.O. Box 157
Altadena, California 91001

HMSO
Her Majesty's Stationery Office
P. O. Box 569
London, S.E. 1, England

HTCBN
Hungarian Trading Company for Books and Newspapers "Kultura"
Budapest 62, P.O. Box 149

ICE
International Chemical Engineering
345 East 47th Street
New York, New York 10017

IEEE
Institute of Electrical & Electronics Engineers
275 Madison Avenue
New York, New York 10016

INFOSERV
Infoserv
P. O. Box 217
West Hartford, Conn. 06097

INT
International Patent Service N.V.
P. O. Box 101
's-Hertogenbosch,
The Netherlands

IP
Interscience Publishers, Inc.
250 Fifth Avenue
New York, New York 10001

IPST
Israel Program for Scientific Translation
14 Shammai Street
P.O. Box 7145
Jerusalem, Israel

ISA
Instrument Society of America
530 William Penn Place
Pittsburgh, Pennsylvania 15219

K-H
Kresge-Hooker Science Library Associates
Wayne State University
Detroit, Michigan 48202

LAND-AIR
Land-Air. Inc.
Pacific Missile Range
Point Mugu, California 95468

LC
Photoduplication Service
Publication Board Project
Library of Congress
Washington, D.C. 20540

LSA
Literature Service Associates
Route 1
Bound Brook, New Jersey 08805

MACL
Maclaren and Sons, Ltd.
Maclaren House
131 Great Suffolk Street
London, S.E. 1, England

MACM
Macmillan Co.
60 Fifth Avenue
New York, New York 10011

MDF
Morris D. Friedman
7553 Waterford Drive
San Jose, California 95129

MT
M. de O. Tollemache
Pennyford Cottage,
Burrington,
Umberleigh, Devon, England

MUL
Mulholland Engineering Translations
26 Burton Woods Lane
Cincinnati, Ohio 45229

NASA
National Aeronautics and Space Administration
1520 H Street, N.W.
Washington, D.C. 20546

NRCC
National Research Council Library
Ottawa 2, Canada

OB
Oliver & Boyd, Ltd.
Tweeddale Court
14 High Street
Edinburgh 1, Scotland

OSA
Optical Society of America, Inc.
33 University Road
Cambridge, Massachusetts 02138

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Washington, D.C. 20230
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Department of Commerce
Field Offices)

PERA
The Information Manager
Production Engineering Research Association
Melton Mowbray
Leicestershire, England

PLP
Plenum Press, Inc.
227 West 17th Street
New York, New York 10011

PP
Pergamon Press
122 East 55th Street
New York, New York 10022

PS
Primary Sources
11 Bleecker Street
New York, New York 10012

RIA
Research International Associates
1522 Connecticut Avenue, N.W.
Washington, D.C. 20006

RIS
Research Information Service
Div. of Maxwell Scientific International, Inc.
122 East 55th Street
New York, New York 10022

RIS
Research Information Service
Div. of Pergamon International Corp.
122 East 55th Street
New York, New York 10022

SA
Seizaburo Aoki
1069 Minami Nakadori 2-chome
Fujisawa, Japan

SIAM
Business Manager
SIAM Publications
Box 7541
Philadelphia, Pennsylvania 19100

SIC
Scientific Information Consultants Limited
661 Finchley Road
London N. W. 2, England

SLA
SLA Translations Center
The John Crerar Library
35 West 33rd Street
Chicago, Illinois 60616

ST
Scripta Technica, Inc.
1000 Vermont Avenue, N.W.
Washington, D.C. 20005

STS
Scientific Translation Service
1938 Verdugo Knolls Drive
Glendale, California 91200

STT
SCIENTECH, Scientific & Technical Translations
P. O. Box 3530
Cleveland, Ohio 44118

TF
Taylor and Francis Ltd.
Red Lion Court, Fleet Street
London, E. C. 4, England

TDL
Mr. John Wiley
Technical Development Laboratories
P. O. Box 769
Savannah, Georgia 31400

TIB
Technische Informationsbibliothek
Am Welfengarten 1,
Hannover, West Germany

TIC
Technical Information Company
Patents Department
Chancery House
Chancery Lane
London, W.C. 2, England

TTIS
Translation & Technical Information Services
32 Manaton Road
London, S. E. 15, England

WBI
Warren Birkenhead, Inc.
901 Northern Life Tower
Seattle, Washington 98101
or
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Bushinskii, G.I.
MINERALOGIE ET CLASSIFICATION DES PHOSPHORITES, AINSI QUE LEUR UTILISATION DANS L'AGRICULTURE. 18p. 19 refs. CNRS-XXX 3.
Order from OTS, ETC or CNRS $1.60 TT-63-26018

Trans. in French of Akademiya Nauk SSSR. Izvestiya. Seriya Geologicheskaya, 1954, v.19, no.1, p.3-12.

Gorski, M. and Stobiecki, T.
L'EAU AMMONIACALE COMME ENGRAIS AZOTE (Woda Amoniakalna Jako Nawoz Azotowy). 23p. (foreign text included) 28 refs. CNRS-II 150.
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Trans. in French of Przemysl Chemiczny (Poland) 1955, v.11(34), no.8, p.417-421.

Karpenko, A. S.
WORK OF THE SCIENTIFIC SEMINAR OF THE SECTION OF GEOBOTANY OF THE BOTANICAL INSTITUTE IMENI V. L. KOMAROV OF THE ACADEMY OF SCIENCES USSR, 1962-63. 11 Jun 64, 7p JPRS: 25036.
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Trans. of Botanicheskii Zhurnal (USSR) 1964, v. 49, no. 1, p. 156-159.

Lempits'ka, V.K.
EMPLOI DE LA FARINE DE PHOSPHORITES COMME ENGRAIS PHOSPHORE (Vikoristannya Fosforitnogo Boroshna yak Fosfornogo Dobriva). 14p. (foreign text included) 11 refs. CNRS-II 75.
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Lempits'ka, V.K.
INFLUENCE DE LA FARINE DE PHOSPHORITES SUR LA LEVEE DES JEUNES POUSSES ET LA CROISSANCE DE LA BETTERAVE A SUCRE (Vpliv Fosforitnogo Boroshna na Poyavu Skhodiv ta Rist Tsukrovikh Buryakiv). 14p. (foreign text included) 6 refs. CNRS-IV 13.
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Trans. in French of Przemysl Chemiczny (Poland) 1961, v. [17] (40) no. 5, p. 260-262.

Mitin, M. A.
DEVICE FOR AUTOMATIC REGULATION OF THE DEPTH LEVEL OF THE WORKING ELEMENTS OF TILLING IMPLEMENTS L. H., tr. 28 Apr 64, 6p (figs omitted).
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Trans. of USSR Author's certificate no. 116, 384, cl. 45a, 36, appl. 20 Mar 57, pub. 19 Jan 59 (pub. in Byulleten' Izobretenii [i Tovarnykh Znakov] (USSR) 1958, no. 12).

Ruseinov, D.M.
NOUVEL ENGRAIS ORGANO PHOSPHATE A PARTIR D'UN DECHET DE L'INDUSTRIE DU PETROLE (Novoe Fosfatno-Organicheskoe Udobrenie iz Otkhoda Neftyanoi Promyshlennosti-Kislogo Gudrona i Vlyanie Ego na Urozhai Sel'skokhozyaistvennykh Kul'tur). 23p. (foreign text included). CNRS-II 5.
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C. C. Nikiforoff, tr. Jan 63, 5p
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Tepla, N.I.
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Animal Husbandry

Herdea, Vasile.
SCIENTIFIC RESEARCH IN ANIMAL HUSBANDRY AND POULTRY RAISING. 22 Jun 64, 9p JPRS: 25215.
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Trans. of Lupta de Clasa (Rumania) 1964 [v. 44] no. 4, p. 69-83.

Krivoshapkin, N.A. and Redko, A.S.
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ÉTUDE SUR LES BESOINS DES POUSSINS EN VITAMINES.I.BESOINS EN VITAMINES B6 DES POUSSINS DE L'ESPÈCE LEGHORN BLANCHE. 11p. 13refs. CNRS-III 288.
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CULTURE DU COTONNIER EN PLATES-BANDES. 16p. 1ref.CNRS-II 22.
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Alekseev, M.V.
CULTUURUIEN (Cultivated Onions) tr. by K.Szteyn. 197p. MTWL-1151.
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Trans. in Dutch of Unidentified Russian language mono., Moscow, 1960.

Astapov, S. V.
AMELIORATIVE PEDOLOGY: LABORATORY MANUAL, 2D ED. A. Birron and Z. S. Cole, trs. 1964, 272p 51refs PL-480 Agr.
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Trans. of mono. Meliorativnoe Pochvovedenie: Praktikum, 2d ed., Moscow, 1958.

Balabanov, B.G.
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Kandera, J. and Truksa, J.
POSSIBILITÉS D'UTILISATION DES PHOSPHORITES COMME ENGRAIS SANS TRAITEMENT CHIMIQUE PRÉALABLE. 22p. 19refs. CNRS-II 136.
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Trans. in French of Pol'nohospodarstvo (Czechoslovakia) 1958, v. 5, p. 302-315.

Karwowski, T.
TECHNOLOGISCHE- EN KONSTRUCTIE VRAAGSTUKKEN DER MACHINALE SUIKERBIETEN OOGST (Technological and Constructive Problems of Automatic Sugarbeet Harvest), tr. by M.K.Rozdeiczer. 14p. 6refs. MTWL-1128.
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Partial trans. in Dutch of Roczniki Nauk Rolniczych [Seria C: Mechanizacji] (Poland) 1957, v. 67, no. 1, p. 1-102.
Another trans. is available in English from OTS in TT-60-21569 (p. 1-79).

Kramer, M. and Erdei, G.
L'EMPLOI DE LA METHODE DE DETERMINATION DE L'ACTIVITE DES PHOSPHATASES DANS LES RECHERCHES D'AGROCHIMIE. 11p. 15 refs. CNRS-II 155.
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Trans. in French of Agrokemia es Talajtan (Hungary) 1958, v.7, p.361-366.

Kushnirenko, M.D.
ADAPTATION DU COTONNIER A LA SALINISATION DU SOL PENDANT LA VEGETATION (Prisposoblenie Khlopchatnika k Zasoleniyu Pochvy v Period Vegetatsii). 13p. (foreign text included) 9 refs. CNRS-II 44.
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Trans. in French of Akademiya Nauk SSSR. Doklady, 1951, v. 77, p. 337-340.

Lazarev, S.F.
MICROORGANISMES DU SOL ET ALIMENTATION DU COTONNIER. 11p. CNRS-II 43.
Order from OTS, ETC or CNRS $1.60 TT-62-28852

Trans. in French of Sovetskaya Agronomiya (USSR) n.d., no.1, n.p.

Lepesme, P.
CONCERNING POSSIBLE UTILIZATION OF CALCINED MAGNESIA IN THE PRODUCTION OF GRAINS AGAINST WEEVILS. 4p.
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Trans. of Academie d' Agriculture de France. Comptes Rendus des Seances, 1938, v. 24, p. 669-672.
Another trans. is available from SLA $1.10 as TT-63-18118, 4p.

Ležepekov, S.
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AURORAE AND AIRGLOW: RESULTS OF IGY RESEARCH

(POLYARNYE SIYANIYA I SVECHENIE NOCHNOGO NEBA: SBORNIK STATEI)

1961, NO. 7

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ELECTRICAL DISCHARGE TREATMENT OF METALS
(Elektroiskrovaya Obrabotka Metallov)

Moscow, 1963.

ARC-DISCHARGE METALLURGY

- USSR -

Following is a translation of five articles in the Russian-language book Elektroiskrovaya Obrabotka Metallov (Electrical Discharge Treatment of Metals), Academy of Sciences Publishing House, Moscow, 1963. Complete bibliographic information accompanies each article.

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GENERAL THEORY OF SHELLS AND ITS APPLICATION IN ENGINEERING

(Obshchaya Teoriya Obolochek i Ee Prilozheniya v Tekhnike)

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